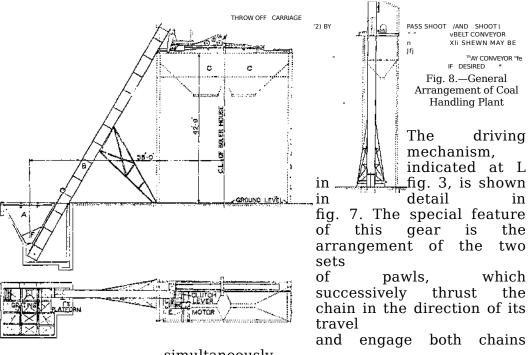
is required for the filler, and the five openings successively cover the buckets of the conveyor and fill them without spilling.

The coal crusher, indicated at c in fig. 3, is larger detail in fig. 6. This apparatus is necessary for crushing pieces large of received, so that the whole of the coal may be suitable for use mechanical stokers. The crusher is generally driven by a separate motor, and a safety shearing coupling should be guard provided to against damage to the rolls and gearing in the event of other iron hard or substance being accidentally delivered with the coal.



simultaneously.

By this device the wear on the chains is compensated, uniform and a drive is obtained. It will be appreciated that driving such device desirable, as a plain five- or six-sided driving sprocket gives very irregular a motion to the chain, thus causing large stresses to be set with consequent up rapid deterioration of the chain and other gear.

Bucket Chain Elevator with Belt or Tray Conveyor.—A general arrangement of a coal handling which the above system, in bination is used, is shown in fig. 8, in which the coal-receiving B a bucket chain elevator for lifting the coal above the level of the coal